

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/00525

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G11B20/12, G11B20/10, G11B7/0045, G11B7/007

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G11B20/12, G11B20/10, G11B7/0045, G11B7/007

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 5-20792 A (Matsushita Electric Industrial Co., Ltd.),	1, 2, 11, 12,
Y	29 January, 1993 (29.01.93),	20, 21, 25, 26
	Full text; Figs. 1 to 8	3-10, 13, 14,
A	(Family: none)	16-19, 22-24,
		32, 33
		15, 27-31, 34
X	JP 5-290515 A (Canon Inc.),	1, 2, 11, 20,
	05 November, 1993 (05.11.93),	21, 25
Y	Full text; Figs. 1 to 4	3-10, 12-14,
	(Family: none)	16-19, 22-24,
		26, 32, 33
A		15, 27-31, 34

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
16 April, 2003 (16.04.03)

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INTERNATIONAL SEARCH REPORT

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PCT/JP03/00525

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	WO 01/15164 A1 (Sony Corp.) 01 March, 2001 (01.03.01), Full text; Fig. 2 & EP 1122729 A1	3, 6-10, 12-14, 16, 17, 22-24, 26 15, 27-31, 34
Y A	JP 2001-344765 A (Toshiba Corp.), 14 December, 2001 (14.12.01), Full text; Figs. 1 to 11 (Family: none)	3, 6-10, 12-14, 16, 17, 22-24, 26 15, 27-31, 34
Y A	WO 00/67257 A2 (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 09 November, 2000 (09.11.00), Full text; Figs. 1 to 39 & EP 1058254 A2 & JP 2001-189021 A & JP 2001-189015 A	3, 6-10, 12-14, 16, 17, 22-24, 26 15, 27-31, 34
Y A	JP 9-73634 A (Ricoh Co., Ltd.), 18 March, 1997 (18.03.97), Full text; Figs. 1 to 7 (Family: none)	6-10, 12-14, 16, 17, 26 15, 27-31, 34
Y A	JP 6-349248 A (Fuji Photo Film Co., Ltd.), 22 December, 1994 (22.12.94), Full text; Figs. 1 to 5 (Family: none)	6-10, 12-14, 16, 17, 26 15, 27-31, 34
Y	US 5737287 A (LG Electronics Inc.), 07 April, 1998 (07.04.98), Full text; Figs. 1 to 6 & JP 9-17107 A	4, 5, 23, 24
Y	JP 2001-110003 A (Omron Corp.), 20 April, 2001 (20.04.01), Full text; Figs. 1 to 7 (Family: none)	18, 19, 32, 33
Y	JP 6-131817 A (Canon Inc.), 13 May, 1994 (13.05.94), Full text; Figs. 1 to 10 (Family: none)	18, 19, 32, 33